

LEAF™ Purified anti-mouse Galectin-9

Catalog # / Size: 136106 / 500 µg

Clone: RG9-35

Isotype: Rat IgG2a, κ

Immunogen: Recombinant mouse galectin-9

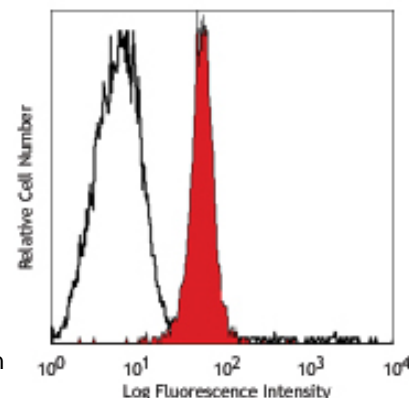
Reactivity: Mouse

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



Intracellular staining of mouse thymocytes with RG9-35 PE

Applications:

Applications: ICFC - *Quality tested*
 Block - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 0.5 µg per 10⁶ cells in 100 µl volume or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application References: 1. Fukushima A, *et al.* 2008. *Int. Arch. Allergy Immunol.* 146:36. (FA)

Description: Galectin-9 is a mammalian lectin with a molecular weight of 40 kD that has two conserved carbohydrate recognition domains (CRDs) and forms homodimers. It recognizes N-acetyllactosamine (Galβ1-4GlcNAc) and T-antigen (Galβ1-3GalNAc). Tim-3 has been reported as its ligand. Galectin-9 is expressed by lymphocytes, dendritic cells, granulocytes, eosinophils, astrocytes, endothelial cells, fibroblasts, and thymus epithelial cells. It may be retained intracellularly or transported to the cell surface whereby cleavage generates a soluble form. Galectin-9 is involved in events such as cell aggregation, adhesion, chemotaxis, and apoptosis, and is important for the regulation of the immune response. Galectin-9 induces regulatory T cells, and suppresses Th1 and Th17 responses.

Antigen References: 1. Klibi J, *et al.* 2009. *Blood* 113:1957
 2. Seki M, *et al.* 2008. *Clin Immunol* 127:78
 3. Tsuboi Y, *et al.* 2007. *Clin Immunol* 124:221
 4. Zhu C, *et al.* 2005. *Nat Immunol* 6:1245
 5. Dunphy JL, *et al.* 2002. *J. Biol. Chem.* 277:14916

Related Products:

Product
 LEAF™ Purified Rat IgG2a, κ Isotype Ctrl

Cell Staining Buffer
 RBC Lysis Buffer (10X)

Clone
 RTK2758

Application
 FC, ICFC, WB, IP, ICC, IF,
 IHC, FA
 FC, ICC, ICFC
 FC, ICFC



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